

Table 3-1. Summary of Demographic and Economic Statistics for the Southwest New Mexico Water Planning Region

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a. Population

County	2000 Total	2010	2013
Catron	3,543	3,725	3,607
Grant	31,002	29,514	29,364
Hidalgo	5,932	4,894	4,809
Luna	25,016	25,095	24,967
Total Region	65,493	63,228	62,747

Source: U.S. Census Bureau, 2014a, unless otherwise noted.

^a U.S. Census Bureau, 2010

b. Income and Employment

County	2008-2012 Income ^a		Labor Force Annual Average 2013 ^b		
	Per Capita (\$)	Percentage of State Average	Number of Workers	Number Employed	Unemployment Rate (%)
Catron	19,549	82	1,556	1,447	6.5
Grant	22,415	94	11,863	10,996	7.3
Hidalgo	19,164	81	2,596	2,429	6.4
Luna	16,546	70	12,637	10,534	16.6
Total Region	—	—	28,652	25,406	11.3

^a U.S. Census Bureau, 2014c, American Community Survey 5-Year Estimate

^b NM Department of Workforce Solutions, 2014

c. Business Environment

County	Industry	Number Employed	Number of Businesses
	<i>2008-2012^a</i>		<i>2012^b</i>
Catron	Retail trade	204	64
	Education/healthcare	198	
	Agriculture, forestry, etc.	174	
	Construction	165	
Grant	Education/healthcare	3,846	649
	Agriculture, mining, etc.	1,614	
	Retail trade	1,149	
	Arts, entertainment, recreation, lodging, dining	886	

Table 3-1. Summary of Demographic and Economic Statistics for the Southwest New Mexico Water Planning Region

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c. Business Environment (continued)

County	Industry	Number Employed	Number of Businesses
Hidalgo	Education/healthcare	455	91
	Agriculture, mining, etc.	331	
	Arts, entertainment, recreation, lodging, dining	322	
Luna	Education/Healthcare	2,068	395
	Retail trade	1,136	
	Arts, entertainment, recreation, lodging, dining	1,050	
	Agriculture, mining, etc.	848	

^a U.S. Census Bureau, 2014b

d. Agriculture

County	Farms / Ranches ^a			Most Valuable Agricultural Commodities ^b
	Number	Acreage		
		Total	Average	
Catron	351	1,077,534	3,070	Cattle, calves
Grant	407	1,064,487	2,615	Cattle, calves Hay, other crops
Hidalgo	171	930,271	5,440	Cattle, calves Fruit, nuts, berries
Luna	372	1,643,213	4,417	Cattle, calves, milk Vegetables, potatoes, melons Hay, other crops Grains, beans, peas, oilseeds Fruit, nuts, berries Cotton, cotton seeds
Total Region	1,301	4,715,505	3,265	

^a USDA NASS, 2014, Table 1

^b USDA NASS, 2014, Table 2

Table 5-1. Southwest New Mexico Climate Stations

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Climate Stations ^a	Latitude	Longitude	Elevation	Precipitation		Temperature	
				Data Start	Data End	Data Start	Data End
Catron County							
Adobe Ranch	33.57	-107.90	7,418	12/1/1941	2/28/1994	12/1/1941	2/28/1994
Alma	33.38	-108.90	4,850	4/1/1894	1/31/1926	4/1/1894	1/31/1926
Beaverhead R S	33.43	-108.10	6,670	6/1/1916	9/30/2008	3/1/1939	8/31/2008
Birmingham Ranch	33.80	-108.33	6,804	9/1/1939	11/30/1974	1/1/1948	11/30/1974
Danley Ranch	33.80	-108.33	6,804	9/1/1939	11/30/1974	1/1/1948	11/30/1974
Datil	34.15	-107.85	7,106	9/1/1905	8/31/1951	9/1/1905	8/31/1951
Glenwood	33.32	-108.88	4,725	9/1/1937	Present	9/1/1937	Present
Hedrick Ranch	33.30	-108.13	6,204	6/1/1948	7/23/1959	—	—
Hickman	34.52	-107.93	7,805	9/1/1943	1/31/1985	5/1/1957	1/31/1985
Hood/Reserve Ranger Stn	33.72	-108.78	5,833	12/1/1906	Present	3/1/1944	Present
Horse Springs	33.93	-108.18	6,946	9/1/1929	8/31/1938	9/1/1929	8/31/1938
Jewett Ranger Stn	33.98	-108.63	7,405	6/1/1923	9/13/1967	6/1/1946	6/30/1967
Luna Ranger Stn	33.82	-108.94	7,050	2/1/1903	Present	2/1/1903	Present
Mogollon	33.38	-108.78	6,804	4/1/1916	9/30/1951	3/1/1937	4/30/1948
Pietown 19NE	34.49	-107.89	7,961	9/1/1988	Present	9/1/1988	Present
Quemado	34.34	-108.49	6,878	7/1/1915	Present	10/1/1918	Present
Quemado Lake	34.13	-108.52	7,660	11/1/1986	8/31/1993	11/1/1986	8/31/1993
Salt Lake 4 NE	34.47	-108.70	6,585	9/1/1951	3/31/1962	—	—

Source: WRCC, 2014

^a Stations in **bold** type were selected for detailed analysis.

^b Only one value reported for entire year.

— = Information not available

NR = Temperature is not recorded at SNOTEL stations.

Table 5-1. Southwest New Mexico Climate Stations

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Climate Stations ^a	Latitude	Longitude	Elevation	Precipitation		Temperature	
				Data Start	Data End	Data Start	Data End
Grant County							
Bear Creek Ranch	32.95	-108.42	5,305	1/1/1940	12/31/1959	—	—
Buckhorn	33.04	-108.71	4,800	1/1/1948	10/30/2012	—	—
Cliff 11 SE	32.83	-108.50	4,776	5/1/1944	12/31/2010	5/1/1947	11/30/2012
Cliff 2 NW	32.98	-108.63	4,803	5/1/1905	6/30/1947	5/1/1905	12/31/1913
Cureton Ranch	32.53	-108.63	5,199	11/1/1942	11/30/2002	—	—
Faywood	32.63	-107.86	5,222	6/1/1946	10/31/2013	1/1/1962	10/31/2013
Fort Bayard	32.79	-108.15	6,142	1/1/1897	3/31/2011	1/1/1897	3/31/2011
Gila 6 NNE	33.03	-108.53	4,652	1/1/1897	12/31/1959	1/1/1897	12/31/1959
Gila Hot Springs	33.20	-108.21	5,636	6/1/1957	Present	6/1/1957	Present
Hachita	31.92	-108.32	4,515	7/1/1909	Present	10/1/1911	Present
Mimbres Ranger Stn	32.93	-108.01	6,238	5/1/1905	2/28/2011	11/1/1956	2/28/2011
Pinos Altos	32.87	-108.22	7,005	7/1/1911	1/31/1973	—	—
Redrock 1 NNE	32.70	-108.73	4,154	3/1/1905	Present	2/1/1958	Present
Silver City	32.78	-108.27	5,920	4/1/1901	10/31/1964	4/1/1901	10/31/1964
Silver City Wb Ap	32.63	-108.17	5,377	5/1/1960	Present	5/1/1960	Present
Thompson Canyon Ranch	32.54	-108.64	5,200	11/1/1942	11/30/2002	—	—
Tyrone	32.63	-108.33	6,065	9/1/1914	5/31/1930	4/1/1927	5/31/1930
White Signal	32.56	-108.37	6,068	11/1/1942	11/30/2012	5/1/1960	11/30/2012
Whitewater	32.56	-108.13	5,020	6/1/1948	12/31/2003	—	—

Source: WRCC, 2014

^a Stations in **bold** type were selected for detailed analysis.

^b Only one value reported for entire year.

— = Information not available

NR = Temperature is not recorded at SNOTEL stations.

Table 5-1. Southwest New Mexico Climate Stations

Climate Stations ^a	Latitude	Longitude	Elevation	Precipitation		Temperature	
				Data Start	Data End	Data Start	Data End
Hidalgo County							
Animas 3 ESE	31.94	-108.77	4,437	5/1/1923	Present	6/1/1923	Present
Antelope Wells	31.33	-108.53	4,687	4/1/1990	Present	4/1/1990	Present
Culberson Ranch	31.38	-108.60	4,892	1/1/1929	7/31/1946	—	—
Eicks Ranch	31.48	-108.93	5,305	2/1/1916	10/31/1961	1/1/1933	10/31/1961
Gray Ranch	31.52	-108.87	5,105	10/1/1962	8/31/1969	11/1/1962	8/31/1969
Lordsburg 4 SE	32.31	-108.65	4,244	1/1/1892	9/30/2012	11/1/1904	12/31/2012
Road Forks	32.22	-108.97	4,203	11/1/1942	6/30/1957	—	—
Rodeo	31.83	-109.03	4,114	7/1/1909	4/30/1978	8/1/1932	4/30/1978
Rodeo CAA Airport	31.93	-108.98	4,117	3/1/1940	12/31/1953	3/1/1940	12/31/1953
Viriden	32.68	-108.98	3,783	1/1/1941	9/30/1974	—	—
Luna County							
Cambray	32.23	-107.33	4,232	5/1/1899	8/31/1940	—	—
Columbus	31.83	-107.64	4,050	7/1/1909	12/31/1945	6/1/1927	12/31/1945
Columbus FAA Ap / Columbus, NM	31.83	-107.65	4,160	8/1/1909	5/31/2011	7/1/1923	5/31/2011
Deming	32.25	-107.75	4,300	10/1/1892	10/31/2010	9/1/1904	10/31/2010
Deming FAA Airport	32.25	-107.70	4,302	5/1/1920	Present	4/1/1961	Present
Florida	32.43	-107.48	4,450	6/1/1929	5/31/1992	8/1/1938	5/31/1992
Gage 4 ESE	32.22	-108.02	4,410	6/1/1899	1/31/2007	4/1/1905	1/31/2007
Hermanas	31.85	-107.98	4,544	7/1/1909	12/31/1959	1911 ^b	1912 ^b

Source: WRCC, 2014

— = Information not available

^a Stations in **bold** type were selected for detailed analysis.

NR = Temperature is not recorded at SNOTEL stations.

^b Only one value reported for entire year.

Table 5-1. Southwest New Mexico Climate Stations

Climate Stations ^a	Latitude	Longitude	Elevation	Precipitation		Temperature	
				Data Start	Data End	Data Start	Data End
SNOTEL Stations							
Frisco Divide - SNTL	33.74	-108.95	8,000	11/1/1978	present	NR	NR
Hummingbird - Aerial and Snow Course - Snow	33.33	-108.64	10,550	1964	2013	NR	NR
Silver Creek Divide - SNTL	33.37	-108.71	9,000	10/1/1978	present	NR	NR
State Line - Snow	33.80	-109.05	8,000	1938	present	NR	NR
Whitewater - Aerial and Snow Course - Snow	33.32	-108.64	10,750	1964	2013	NR	NR
Emory Pass #2 - Snow	32.90	-107.78	7,800	1967	2013	NR	NR
McKnight Cabin - SNTL	33.01	-107.87	9,240	9/25/2003	present	NR	NR
McKnight Cabin Aerial Marker - Snow	33.02	-107.87	9,300	1967	2011	NR	NR
McKnight Cabin Snow Course - Snow	33.17	-107.87	9,300	2000	2013	NR	NR
Signal Peak - SNTL	32.92	-108.15	8,360	11/1/1978	present	NR	NR

Source: WRCC, 2014

^a Stations in **bold** type were selected for detailed analysis.

— = Information not available

NR = Temperature is not recorded at SNOTEL stations.

**Table 5-2. Temperature and Precipitation for Selected Climate Stations
Southwest New Mexico Water Planning Region**

Station Name	Precipitation (inches)				Temperature			
	Average Annual ^a	Minimum ^b	Maximum ^b	% of Possible Observations ^c	Average (°F)			% of Possible Observations ^c
					Annual ^d	Minimum ^e	Maximum ^e	
Glenwood	15.88	6.90	25.57	82.3	57.5	40.2	74.9	80.2
Quemado	10.82	3.82	21.48	76.1	48.2	29.8	66.5	66.6
Redrock	12.55	4.36	21.31	92.8	59.2	41.2	77.2	48.7
Animas 3 ESE	10.87	4.73	19.67	97.2	60.7	44.1	77.1	62.9

Source: Statistics computed by Western Regional Climate Center (2014)

ft amsl = Feet above mean sea level

°F = Degrees Fahrenheit

^a Average of annual precipitation totals for the period of record at each station.

^b Minimum and maximum recorded annual precipitation amounts for each station.

^c Amount of completeness in the daily data set that was recorded at each station (e.g., 99% complete means there is a 1% data gap).

^d Average of the daily average temperatures calculated for each station.

^e Average of the daily minimum (or maximum) temperature recorded daily for each station.

Table 5-3. Palmer Drought Severity Index Classifications

PDSI Classification	Description
+ 4.00 or more	Extremely wet
+3.00 to +3.99	Very wet
+2.00 to +2.99	Moderately wet
+1.00 to +1.99	Slightly wet
+0.50 to +0.99	Incipient wet spell
+0.49 to -0.49	Near normal
-0.50 to -0.99	Incipient dry spell
-1.00 to -1.99	Mild drought
-2.00 to -2.99	Moderate drought
-3.00 to -3.99	Severe drought
-4.00 or less	Extreme drought

Table 5-4a. USGS Stream Gage Stations

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USGS Station ^a		Latitude	Longitude	Elevation (ft amsl)	Drainage Area (sq mi)	Irrigated Upstream Land ^c (acres)	Period of Record	
Name ^b	Number						Start Date	End Date
Catron County								
Largo Creek Nr Mangas, NM	09386050	34.1417172	-108.502007	7,600	63	—	10/1/1960	9/30/1966
Trout Creek Nr Luna, NM	09442653	33.8900522	-109.011185	8,050	27	—	12/17/1968	1/11/1973
San Francisco River Near Reserve, NM	09442680	33.7367194	-108.771175	5,820	350	280	3/1/1959	Present
Tularosa River Above Aragon, NM	09442692	33.8914412	-108.515617	6,750	94	0	7/1/1966	9/30/1996
San Francisco R Nr Alma, NM	09443000	33.3681169	-108.910342	4,842	1,546	1600 ^d	2/1/1964	9/30/1986
Whitewater Cr Nr Mogollon, NM	09443500	33.3667287	-108.808951	—	34	— ^e	10/1/1909	6/30/1923
San Francisco River Near Glenwood, NM	09444000	33.2471667	-108.88	4,560	1,653	2,000	10/1/1927	Present
Grant County								
Mimbres R at McKnight Ds Nr Mimbres, NM	08476300	32.9372956	-108.015874	6,237	97	—	11/1/1963	10/31/1972
Mimbres River Near Mimbres, NM	08477000	32.8745191	-107.985317	5,972	152	300	10/1/1930	9/30/1976
Mimbres River at Mimbres, NM	08477110	32.854675	-107.973789	5,920	184	NA	3/1/1978	6/2/2013
San Vicente Arroyo at Silver City, NM	08477600	32.7709084	-108.275604	5,863	27	NA	10/1/1953	9/30/1965
Gila R Nr Silver City, NM	09430000	33.1750693	-108.208938	5,530	1,600	—	7/1/1912	5/31/1919
Sapillo Creek Below Lake Roberts, NM	09430150	33.0322931	-108.168936	5,990	78	—	6/1/1964	10/1/1971
Gila River Near Gila, NM	09430500	33.0615028	-108.537386	4,655	1,864	500	12/1/1927	Present
Mogollon Creek Near Cliff, NM	09430600	33.1666667	-108.649722	5,440	69	NA	2/21/1967	Present
Gila River Near Cliff, NM	09431000	32.9389591	-108.606165	4,455	2,438	—	1/1/1942	9/30/1951

Source: USGS, 2014c (unless otherwise noted)

^a Only those USGS stream gages with daily data are shown.

^b **Bold** indicates gages in key locations selected for additional analysis.

^c Source: DBS&A, 2005; USGS, 2014a

^d Station not active, unable to confirm acreage.

^e Station closed before these data were routinely recorded.

USGS = U.S. Geological Survey

ft amsl = Feet above mean sea level

sq mi = Square miles

NA = Not available

— = Data not available from current source(s).

Table 5-4a. USGS Stream Gage Stations

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USGS Station ^a		Latitude	Longitude	Elevation (ft amsl)	Drainage Area (sq mi)	Irrigated Upstream Land ^c (acres)	Period of Record	
Name ^b	Number						Start Date	End Date
Grant County (cont.)								
Gila River Near Redrock, NM	09431500	32.7269444	-108.675556	4,090	2,829	5,000	10/1/1930	Present
Gila River Below Blue Creek, Near Virden, NM	09432000	32.648132	-108.845891	3,875	3,203	6,200	7/1/1927	Present
Hidalgo County								
New Model Ca Nr Virden, NM	09436000	32.6750736	-108.992283	—	—	—	10/1/1960	12/31/1967
Luna County								
Mimbres River Near Faywood, NM	08477500	32.5861928	-107.920034	5,033	440	1,750	10/1/1930	9/30/1968
Mimbres R Nr Spalding, NM	08477530	32.4653621	-107.947812	4,750	472	—	10/1/1963	9/30/1968
Mimbres R BI Wamel Ca Nr Deming, NM	08478400	32.3014754	-107.896422	4,469	1,101	—	10/1/1963	9/30/1968

Source: USGS, 2014c (unless otherwise noted)

^a Only those USGS stream gages with daily data are shown.

^b **Bold** indicates gages in key locations selected for additional analysis.

^c Source: DBS&A, 2005; USGS, 2014a

USGS = U.S. Geological Survey

ft amsl = Feet above mean sea level

sq mi = Square miles

NA = Not available

— = Data not available from current source(s).

Table 5-4b. USGS Stream Gage Annual Statistics for Stations with 10 or More Years of Record

USGS Station Name ^a	Annual Yield ^b (acre-feet)			Number of Years ^c
	Minimum	Median	Maximum	
<i>Catron County</i>				
San Francisco River Near Reserve, NM	3,504	13,031	62,768	53
Tularosa River Above Aragon, NM	1,976	2,288	4,011	29
San Francisco River Near Alma, NM	5,249	54,008	238,402	21
San Francisco River Near Glenwood, NM	8,688	42,823	271,415	86
<i>Grant County</i>				
Mimbres River Near Mimbres, NM	2,100	6,451	23,239	45
Mimbres River at Mimbres, NM	2,244	11,873	30,189	34
San Vicente Arroyo at Silver City, NM	324	518	1,216	11
Gila River Near Gila, NM	31,058	86,152	299,505	85
Mogollon Creek Near Cliff, NM	3,120	19,981	61,682	45
Gila River Near Redrock, NM	53,067	144,866	460,153	50
Gila River Below Blue Creek, Near Virden, NM	23,746	118,441	521,473	78
<i>Luna County</i>				
Mimbres River Near Faywood, NM	1,187	7,529	37,791	27

Source: USGS, 2014c

^a Stations with complete years of data only

Bold indicates gages in key locations selected for additional analysis.

^b Based on calendar years;

^c Number of years used in calculation of annual yield statistics

Table 5-5. USGS Stream Gage Average Monthly Streamflow for Stations with 10 or More Years of Record

USGS Station ^a	Complete Years ^b	Average Monthly Streamflow ^c (acre-feet)											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Catron County													
San Francisco River Near Reserve, NM	53	1,204	1,984	3,923	2,619	1,010	347	478	1,040	1,115	1,469	984	1,065
Tularosa River Above Aragon, NM	29	202	230	307	290	186	172	186	183	178	205	180	210
San Francisco R Nr Alma, NM	21	4,227	7,034	12,871	7,732	2,649	342	981	2,943	2,997	9,259	2,498	8,365
San Francisco River Near Glenwood, NM	86	6,061	7,040	11,103	8,015	4,309	1,626	2,308	4,951	4,284	5,035	2,991	4,873
Grant County													
Mimbres River Near Mimbres, NM	45	531	673	1,282	1,099	690	328	416	785	804	628	430	497
Mimbres River At Mimbres, NM	34	1,391	1,497	1,596	1,235	809	432	625	1,882	916	715	667	1,437
San Vicente Arroyo At Silver City, NM	11	20	4	13	3	2	26	167	232	61	39	5	10
Gila River Near Gila, NM	85	10,745	13,348	18,628	12,737	8,166	3,361	4,037	9,204	10,386	7,039	5,908	9,760
Mogollon Creek Near Cliff, NM	45	2,332	3,200	4,016	2,896	1,361	164	612	1,306	1,457	1,228	942	2,205
Gila River Near Redrock, NM	50	18,561	22,418	27,318	17,462	10,331	3,257	4,983	14,054	15,321	11,081	8,896	17,581
Gila River Below Blue Creek, Near Virden, NM	78	18,673	20,791	24,273	15,723	8,740	2,812	4,715	13,334	12,826	9,420	7,879	14,475
Luna County													
Mimbres River Near Faywood, NM	27	872	1,108	1,784	923	470	264	671	2,018	1,062	348	231	697

Source: USGS, 2014c

^a **Bold** indicates gages in key locations selected for additional analysis.

USGS = U.S. Geological Survey

^b Monthly statistics are for complete months with locations where 10 or more years of complete data were available.

^c Data from USGS monthly statistics averaged over the entire period of record, converted to acre-feet (from cubic feet per second) and rounded to the nearest acre-foot.

Table 5-7. Dams with Dam Safety Deficiency Rankings

Page 1 of 2

Dam	Condition Assessment ^a	Deficiency	Hazard Potential ^b	Estimated Cost to Repair (\$)
Catron County				
Wall Lake Dam	Poor	Lack of design information	Low	50,000
Grant County				
Bear Canyon Dam	Poor	Spillway capacity 20% of required flood	High	6,000,000
		Lack of design information		
Lake Roberts Dam	Poor	Spillway capacity 30% of required flood	High	7,700,000
		Spillway deteriorated		
		Seepage		
Magnetite Tailings Dam	Fair	Freeboard contains 50% of required flood	High	
Upper Gila Valley Site No. 1 Dam	Poor	Spillway capacity 17% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 10 Dam	Poor	Spillway capacity 28% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 11 Dam	Poor	Spillway capacity 24% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 12 Dam	Poor	Spillway capacity 18% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 3 Dam	Poor	Spillway capacity 25% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 4 Dam	Poor	Spillway capacity 27% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 6 Dam	Poor	Spillway capacity 26% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 7 Dam	Poor	Spillway capacity 22% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 8 Dam	Poor	Spillway capacity 14% of required flood	High	2,500,000
		Lack of design information		
Upper Gila Valley Site No. 9 Dam	Poor	Spillway capacity 14% of required flood	High	2,500,000
		Lack of design information		

Source: NMOSE, 2014b

^a Assessment criteria are attached at the end of this table.

PMF = Probable maximum flood

^b Hazard potential classifications are attached at the end of this table.

Table 5-7. Dams with Dam Safety Deficiency Rankings

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Dam	Condition Assessment ^a	Deficiency	Hazard Potential ^b	Estimated Cost to Repair (\$)
Hidalgo County				
Lordsburg WWTP Pond 2 Dam	Fair	Lack of maintenance	Significant	100,000
Lordsburg WWTP Pond 3 Dam	Fair	Lack of maintenance	Significant	100,000
Luna County				
Luna Energy Facility Evaporation Ponds 1 & 2	Fair	Lack of design information	Low	100,000

^a Condition assessment:

*2008 US Army Corps of Engineers Criteria
(adopted by NM OSE in FY09)*

NMOSE Spillway Risk Guidelines

Fair: No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range [for the owner] to take further action.

Spillway capacity < 70% but ≥ 25% of the SDF.

Poor: A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A poor condition is also used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.

Spillway capacity < 25% of the SDF.

^b Hazard Potential Classifications:

High: Dams where failure or mis-operation would likely result in loss of human life.

Significant: Dams where failure or mis-operation would likely not result in loss of human life but could cause economic loss, environmental damage, disruption of lifeline facilities, or could impact other concerns. Significant hazard potential classification dams are often located in predominantly rural or agricultural areas but may be located in populated areas with significant infrastructure.

Low: Dams where failure or mis-operation would likely not result in loss of life but may result in minimal economic or environmental losses. Losses would be principally limited to the dam owner's property

Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Catron County						
Beaver Creek (perennial reaches Taylor Ck to headwaters)	NM-2503_25	38.94	Source unknown	HQColdWAL	Temperature, water	5/5B
Canyon Creek (Middle Fork Gila River to headwaters)	NM-2503_43	14.16	Loss of riparian habitat Rangeland grazing Streambank modifications/destabilization	HQColdWAL	Nutrient/eutrophication Biological indicators Turbidity	4A
Centerfire Creek (San Francisco R to headwaters)	NM-2603.A_50	16.13	Source unknown Recreational pollution sources Silviculture fire suppression Rangeland grazing Natural sources	PC HQColdWAL	Escherichia coli Nutrient/eutrophication Biological indicators Sedimentation/siltation Specific conductance Temperature, water Turbidity	5/5A
Diamond Ck (perennial prt East Fork Gila R to Bailey Ck)	NM-2503_22	13	Not assessed	—	—	3/3A
Dry Blue Creek (AZ bnd to headwaters)	NM-2603.A_70	9.52	Not assessed	—	—	3/3A
East Fork Gila River (Gila River to headwaters)	NM-2503_20	26.15	Source unknown	HQColdWAL	Benthic-macroinvertebrate bioassessments	5/5C
Gilita Creek (Middle Fork Gila R to Willow Creek)	NM-2503_45	6.27	Source unknown	HQColdWAL	Temperature, water	5/5A

Source: NMED, 2014a

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^b Unless otherwise noted.

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Cool WAL = Coolwater aquatic life
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^d Impairment (IR) category definitions are attached as the last page of this table.

^e Acres

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

Page 2 of 10

Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Catron County (cont.)						
Gilita Creek (perennial reaches abv Willow Creek)	NM-2503_48	6.57	Not assessed	—	—	3/3A
Glenwood Pond	NM-2603.B_10	1.67 ^e	Not assessed	—	—	3/3A
Hoyt Creek (Wall Lake to headwaters)	NM-2503_26	19.95	Not assessed	—	—	3/3A
Largo Creek (Carrizo Wash to headwaters)	NM-9000.A_906	79.8	Not assessed	—	—	3/3A
Little Creek (West Fork Gila River to headwaters)	NM-2503_31	16.46	Not assessed	—	—	3/3A
Little El Caso Lake	NM-9000.B_075	10 ^e	Not assessed	—	—	3/3A
Middle Fork Gila River (Canyon Creek to headwaters)	NM-2503_41	12.46	Source unknown	HQColdWAL	Temperature, water	5/5B
Middle Fork Gila River (West Fork Gila R to Canyon Creek)	NM-2503_40	24.3	Source unknown	HQColdWAL	Temperature, water	5/5B
Mogollon Creek (perennial reaches abv USGS gage)	NM-2503_02	29.43	Mill tailings Silviculture fire suppression Off-road vehicles Streambank modifications/destabilization	HQColdWAL	Aluminum	4A
Mule Creek (San Francisco R to Mule Springs)	NM-2601_01	10.5	Source unknown	MCWAL	Oxygen, dissolved	5/5C

Source: NMED, 2014a

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Catron County (cont.)						
Negrito Creek (Tularosa River to conflu of N and S forks)	NM-2603.A_42	12.42	Source unknown	HQColdWAL	Temperature, water	5/5B
Pine Lake	NM-9000.B_095	80 ^e	Not assessed	—	—	3/3A
Quemado Lake	NM-9000.B_096	111.4 ^e	Source unknown	CoolWAL	Nutrient/eutrophication Biological indicators	5/5A
S A Creek (perennial prt of Centerfire Creek to headwaters)	NM-99.A_002	13.63	Not assessed	—	—	3/3A
San Francisco River (AZ border to Box Canyon)	NM-2601_00	17.76	Not assessed	—	—	3/3A
San Francisco River (Box Canyon to Whitewater Creek)	NM-2601_10	6.26	Source unknown	MCWAL	Benthic-macroinvertebrate bioassessments	5/5C
San Francisco River (Centerfire Creek to AZ border)	NM-2602_20	14.73	Source unknown Silviculture fire suppression Rangeland grazing	ColdWAL	Benthic-macroinvertebrate bioassessments Temperature, water	5/5C
San Francisco River (NM 12 at Reserve to Centerfire Creek)	NM-2602_10	16.02	Source unknown	ColdWAL PC	Escherichia coli Temperature, water Turbidity	5/5A
San Francisco River (Pueblo Ck to Willow Springs Cyn)	NM-2601_21	22.43	Not assessed	—	—	3

Source: NMED, 2014a

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^e Acres

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

Page 4 of 10

Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Catron County (cont.)						
San Francisco River (Whitewater Ck to Pueblo Ck)	NM-2601_20	14.42	Source unknown	MCWAL	Sedimentation/siltation	5/5A
San Francisco River (Willow Springs Cyn to NM 12 at Reserve)	NM-2601_22	10.41	Source unknown	PC	Escherichia coli	5/5A
Snow Lake	NM-2504_40	100.1 ^e	Source unknown	ColdWAL	Nutrient/eutrophication Biological indicators	5/5A
South Fork Negrito Creek (Negrito Creek to headwaters)	NM-2603.A_43	14.49	Source unknown Recreational pollution sources Loss of riparian habitat Silviculture fire suppression Road/bridge runoff Rangeland grazing	PC HQColdWAL	Escherichia coli Temperature, water	5/5B
Taylor Creek (perennial reaches Beaver Creek to headwaters)	NM-2503_23	22.37	Source unknown Silviculture fire suppression Rangeland grazing	HQColdWAL	Nutrient/eutrophication Biological indicators Temperature, water	5/5C
Tularosa River (Apache Creek to headwaters)	NM-2603.A_41	17.7	Not assessed	—	—	3
Tularosa River (San Francisco R to Apache Creek)	NM-2603.A_40	21.97	Source unknown	HQColdWAL PC	Escherichia coli Temperature, water Turbidity	5/5A

Source: NMED, 2014a

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Catron County (cont.)						
West Fork Gila R (East Fork to Middle Fork)	NM-2503_10	4.85	Source unknown	HQColdWAL	Temperature, water	5/5B
West Fork Gila R (Middle Fork to headwaters)	NM-2503_30	31.47	Source unknown	HQColdWAL	Temperature, water	5/5B
White Creek (West Fork Gila River to headwaters)	NM-2503_32	8.94	Not assessed	—	—	3/3A
Willow Creek (Gilita Creek to headwaters)	NM-2503_47	7.21	Source unknown	HQColdWAL	Aluminum, chronic Temperature, water	5/5A
Grant County						
Allie Canyon (Mimbres River to headwaters)	NM-2804_20	8.82	Not assessed	—	—	3/3A
Bear Canyon (Mimbres River to headwaters)	NM-2804_10	9.96	Not assessed	—	—	3/3A
Bear Canyon Reservoir	NM-2504_30	8.63 ^e	Source unknown	ColdWAL	Mercury in fish tissue Nutrient/eutrophication Biological indicators Temperature, water	5/5A
Beaver Creek (perennial reaches Taylor Ck to headwaters)	NM-2503_25	38.94	Source unknown	HQColdWAL	Temperature, water	5/5B

Source: NMED, 2014a

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^e Acres

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Grant County (cont.)						
Black Canyon Creek (East Fork Gila River to headwaters)	NM-2503_21	25.14	Source unknown	HQColdWAL	Temperature, water	4A
Burro Cienaga (Lordsburg Playa to headwaters)	NM-98.A_010	52.02	Not assessed	—	—	3/3A
Cold Springs Creek (Hot Springs Creek to headwaters)	NM-2803_11	7.56	Source unknown	ColdWAL	Cadmium Lead	5/5A
East Fork Gila River (Gila River to headwaters)	NM-2503_20	26.15	Source unknown	HQColdWAL	Benthic-macroinvertebrate bioassessments	5/5C
Gallinas Creek (Mimbres River to headwaters)	NM-2803_20	20.19	Source unknown	ColdWAL	Nutrient/eutrophication Biological indicators	5/5C
Gila River (AZ border to Red Rock)	NM-2501_00	26.33	Source unknown	MWWAL	Temperature, water	5/5A
Gila River (Mangas Creek to Mogollon Creek)	NM-2502.A_10	15.91	Source unknown	MCWAL	Temperature, water	5/5B
Gila River (Mogollon Ck to East and West Forks of Gila R)	NM-2502.A_30	41.51	Source unknown	MCWAL	Temperature, water	5/5B
Gila River (Red Rock to Mangas Creek)	NM-2502.A_00	19.57	Source unknown	MCWAL WWAL	Nutrient/eutrophication Biological indicators Temperature, water	5/5C
Hot Springs Ck (perennial prt of Mimbres R to headwaters)	NM-2803_10	10.51	Not assessed	—	—	3/3A

Source: NMED, 2014a

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^e Acres

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Grant County (cont.)						
Lake Roberts	NM-2504_20	68.37 ^e	Source unknown	ColdWAL	Nutrient/eutrophication Biological indicators	5/5A
Little Creek (West Fork Gila River to headwaters)	NM-2503_31	16.46	Not assessed	—	—	3/3A
Mangas Creek (Gila River to Mangas Springs)	NM-2502.A_21	6.39	On-site treatment systems (septic) Recreational pollution sources Source unknown Loss of riparian habitat Abandoned mine lands Natural sources Rangeland grazing	MCWAL WWAL	Nutrient/eutrophication Biological indicators Temperature, water	5/5A
Mimbres R (perennial reaches downstream of Willow Springs)	NM-2803_00	25.18	Source unknown	ColdWAL PC	Escherichia coli Temperature, water	5/5B
Mimbres R (perennial reaches Willow Springs to Cooney Cny)	NM-2804_00	15.34	Source unknown	HQColdWAL	Temperature, water	5/5B
Mogollon Creek (perennial reaches abv USGS gage)	NM-2503_02	29.43	Mill tailings Silviculture fire suppression Off-road vehicles Streambank modifications/destabilization	HQColdWAL	Aluminum	4A
Mule Creek (San Francisco R to Mule Springs)	NM-2601_01	10.5	Source unknown	MCWAL	Oxygen, dissolved	5/5C

Source: NMED, 2014a

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^e Acres

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Grant County (cont.)						
San Vicente Arroyo (Mimbres R to Maudes Cny)	NM-9000.A_026	32	Not assessed	—	—	3/3A
San Vicente Arroyo (perennial prt Maudes Cny to headwaters)	NM-9000.A_025	9.8	Source unknown	WWAL	Nutrient/eutrophication Biological indicators	5/5C
Turkey Creek (Gila River to headwaters)	NM-2503_03	16.94	Source unknown	HQColdWAL	Temperature, water	5/5B
West Fork Gila R (East Fork to Middle Fork)	NM-2503_10	4.85	Source unknown	HQColdWAL	Temperature, water	5/5B
Whitewater Creek (Mimbres River to headwaters)	NM-2803_30	17.08	Not assessed	—	—	3/3A
Hidalgo County						
Burro Cienaga (Lordsburg Playa to headwaters)	NM-98.A_010	52.02	Not assessed	—	—	3/3A
Gila River (AZ border to Red Rock)	NM-2501_00	26.33	Source unknown	MWWAL	Temperature, water	5/5A
North Lordsburg Playa	NM-9000.B_091	2880 ^e	Not assessed	—	—	3/3A
Sacaton (No Name) Playa	NM-9000.B_097	600 ^e	Not assessed	—	—	3/3A
South Lordsburg Playa	NM-9000.B_099	7040 ^e	Not assessed	—	—	3/3A

Source: NMED, 2014a

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

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Waterbody Name ^a (basin, segment)	Assessment Unit ID	Affected Reach (miles ^b)	Probable Sources of Pollutant	Uses Not Fully Supported ^c	Specific Pollutant	IR Category ^d
Luna County						
Mimbres R (perennial reaches downstream of Willow Springs)	NM-2803_00	25.18	Source unknown	ColdWAL PC	Escherichia coli Temperature, water	5/5B

Source: NMED, 2014a

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^b Unless otherwise noted.

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Table 5-8. Total Maximum Daily Load Status of Streams in the Southwest New Mexico Water Planning Region

Page 10 of 10

^d Impairment (IR) categories are determined for each assessment unit (AU) by combining individual designated use support decisions.

The applicable unique assessment categories for New Mexico (NMED, 2013b) are described as follows:

Category 3: No reliable monitored data and/or information to determine if any designated or existing use is attained. AUs are listed in this category where data to support an attainment determination for any use are not available, consistent with requirements of the assessment and listing methodology.

Category 3A: Limited data (n = 0 to 1) available, no exceedences. AUs are listed in this subcategory when there are no exceedences in the limited data set. These are considered low priority for follow up monitoring (NMED, 2013).

Category 4A: Impaired for one or more designated uses, but does not require development of a TMDL because TMDL has been completed. AUs are listed in this subcategory once all TMDL(s) have been developed and approved by USEPA that, when implemented, are expected to result in full attainment of the standard. Where more than one pollutant is associated with the impairment of an AU, the AU remains in IR Category 5A (see below) until all TMDLs for each pollutant have been completed and approved by USEPA.

Category 5/5A: Impaired for one or more designated or existing uses and a TMDL is underway or scheduled. AUs are listed in this category if the AU is impaired for one or more designated uses by a pollutant. Where more than one pollutant is associated with the impairment of a single AU, the AU remains in IR Category 5A until TMDLs for all pollutants have been completed and approved by USEPA.

Category 5/5B: Impaired for one or more designated or existing uses and a review of the water quality standard will be conducted. AUs are listed in this category when it is possible that water quality standards are not being met because one or more current designated use is inappropriate. After a review of the water quality standard is conducted, a Use Attainability Analysis (UAA) will be developed and submitted to USEPA for consideration, or the AU will be moved to IR Category 5A and a TMDL will be scheduled.

Category 5/5C: Impaired for one or more designated or existing uses and Additional data will be collected before a TMDL is scheduled. AUs are listed in this category if there is not enough data to determine the pollutant of concern or there is not adequate data to develop a TMDL. For example, AUs with biological impairment will be listed in this category until further research can determine the particular pollutant(s) of concern. When the pollutant(s) are determined, the AU will be moved to IR Category 5A and a TMDL will be scheduled. If it is determined that the current designated uses are inappropriate, it will be moved to IR Category 5B and a UAA will be developed. If it is determined that "pollution" is causing the impairment (vs. a "pollutant"), the AU will be moved to IR Category 4C.

Table 5-9. Municipal and Industrial NPDES Permittees in the Southwest New Mexico Water Planning Region

Permit No	Municipality/Industry ^a	Permit Type
<i>Catron County</i>		
NM0030163	NMG&FD/Glenwood Fish Hatchery	Fish hatchery
NM0024163	Reserve, Village of/Mutual Sewer Association	Municipal (POTW)
<i>Grant County</i>		
NM0020231	Bayard, Village of/WWTP	Municipal (POTW)
NM0027375	Rio de Arenas LLC	Private domestic
NM0020109	Silver City, Town of/WWTP ^b	Municipal (POTW)

Source: NMED, 2014d

^a Names appear as listed in the NMED database.

^b Major discharger, classified as such by the Regional Administrator, or in the case of approved state programs, the Regional Administrator in conjunction with the State Director. Major municipal dischargers include all facilities with design flows of greater than 1 million gallons per day and facilities with U.S. EPA/State approved industrial pretreatment programs. Major industrial facilities are determined based on specific ratings criteria developed by U.S. EPA/State.

NPDES = National Pollutant Discharge and Elimination System

NMG&FD = New Mexico Game and Fish

POTW = Publicly owned treatment works

WWTP = Wastewater treatment plant

U.S. EPA = U.S. Environmental Protection Agency

Table 5-10. Groundwater Discharge Permits in the Southwest New Mexico Water Planning Region

Page 1 of 4

County	Facility Name ^a	Permit No.	Status	Permitted Discharge Amount (gpd)
Catron	Gila Cliff Dwellings National Monument	DP-1387	Active	5,000
	Pueblo Largo Subdivision	DP-608	Active	6,160
	Quemado Mutual Water And Sewage Work Association	DP-1380	Active	58,950
	Reserve (Village of) - Wastewater Treatment Plant	DP-1275	Active	75,000
Grant	American Mobile Home Park	DP-830	Active	9,500
	Chino Mine	DP-376	Active	23,040,000
	Chino Mine	DP-591	Active	23,000,000
	Chino Mine	DP-213	Active	15,600,000
	Chino Mine	DP-526	Active	24,480,000
	Chino Mine	DP-214	Active	0
	Chino Mine	DP-2483	Active	—
	Chino Mine	DP-459	Active	7,128,000
	Chino Mine	DP-484	Active	19,274,400
	Chino Mine	DP-493	Active	10,000
	Chino Mine	DP-1340	Active	—
	Chino Mine	DP-1568	Active	22,000,000
	Cliff School	DP-1523	Active	7,400
	Continental Divide RV Park	DP-847	Active	4,375
	Freeport McMoRan Cobre Mining Company	DP-1056	Active	17,280,000
Freeport McMoRan Cobre Mining Company	DP-181	Active	12,000,000	

Source: NMED, 2014b

gpd = Gallons per day

^a Names appear as listed in the NMED database.

— = Not listed on GWQB web site

Table 5-10. Groundwater Discharge Permits in the Southwest New Mexico Water Planning Region

Page 2 of 4

County	Facility Name ^a	Permit No.	Status	Permitted Discharge Amount (gpd)
Grant (cont.)	Freeport McMoRan Cobre Mining Company	DP-1403	Active	—
	Georgetown Mill and Mine Site	DP-148	Active	0
	Mimbres Christian Camp	DP-5	Active	3,000
	North Hurley Wastewater Treatment Plant	DP-1059	Active	22,800
	Peaceful Valley Trailer Park	DP-1089	Active	8,625
	Royal Minerals - Center Mine No.2033	DP-1177	Active	38,390
	Sedonia Development	DP-890	Active	5,250
	Silver City (Town of) - Wastewater Treatment Plant	DP-35	Active	3,200,000
	Tyrone Mine	DP-383	Active	16,488,000
	Tyrone Mine	DP-396	Active	30,000
	Tyrone Mine	DP-1341	Active	—
	Tyrone Mine	DP-27	Active	—
	Tyrone Mine	DP-496	Active	—
	Tyrone Mine	DP-363	Active	16,488,000
	Tyrone Mine	DP-455	Active	17,280,000
	Tyrone Mine	DP-435	Active	17,280,000
	Tyrone Mine	DP-286	Active	—
	Tyrone Mine	DP-670	Active	7,200,000
	Tyrone Mine	DP-896	Active	3,000
	Tyrone Property Owners Association	DP-28	Active	128,000

Source: NMED, 2014b

gpd = Gallons per day

^a Names appear as listed in the NMED database.

— = Not listed on GWQB web site

Table 5-10. Groundwater Discharge Permits in the Southwest New Mexico Water Planning Region

Page 3 of 4

County	Facility Name ^a	Permit No.	Status	Permitted Discharge Amount (gpd)
Hidalgo	Animas School	DP-1603	Active	9,000
	Banner Mill Site	DP-1651	Active	200,000
	Hidalgo Smelter	DP-311	Active	2,160,000
	Lordsburg (City of) - Wastewater Treatment Plant	DP-625	Active	325,000
	Lordsburg Generating Station	DP-1474	Active	2,500
	Playas Training and Research Center	DP-688	Active	14,400
	Pyramid Generating Station	DP-1366	Active	250,000
Luna	American Minerals Deming	DP-1234	Active	72,000
	Bowlin's Butterfield Station	DP-610	Active	3,750
	Columbus - Industrial Park	DP-120	Active	6,300
	Columbus (Village of) - Wastewater Treatment Plant	DP-1193	Active	144,000
	Deming (City of) - Wastewater Treatment Plant	DP-209	Active	3,000,000
	Deming (City of) - Wastewater Treatment Plant	DP-1795	Active	8,501,086
	Deming Chili Jalapeno Processing Plant	DP-1058	Active	1,100,000
	GH Dairy Deming	DP-1331	Active	60,000
	Las Uvas Valley Dairies Dairy 8	DP-1790	Pending	—
	Low-Hi RV Ranch	DP-1478	Active	4,450
	Luna Energy Facility	DP-1305	Active	150,000
	M and I Portable Toilet Rental	DP-783	Active	1,600
	New Mexico Chile Products Inc	DP-877	Active	16,000

Source: NMED, 2014b

gpd = Gallons per day

^a Names appear as listed in the NMED database.

— = Not listed on GWQB web site

Table 5-10. Groundwater Discharge Permits in the Southwest New Mexico Water Planning Region

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County	Facility Name ^a	Permit No.	Status	Permitted Discharge Amount (gpd)
Luna (cont.)	Pueblo De Luna Trailer Park	DP-81	Active	9,000
	Sapphire Energy Integrated Algal Biorefinery (IABR)	DP-1785	Active	538,000
	Savoy Truck Stop	DP-1204	Active	10,000
	Stetson Dairy	DP-1418	Active	120,000
	Sun Foundation Wastewater Treatment Plant	DP-431	Active	6,000
	Sundance Chile	DP-842	Active	<10,000
	Zia Nitrate Systems	DP-1792	Pending	9,000

Source: NMED, 2014b

^a Names appear as listed in the NMED database.

gpd = Gallons per day

— = Not listed on GWQB web site

Table 5-11. Superfund Sites in the Southwest New Mexico Water Planning Region

Site Location	Site Name ^a	Site ID	EPA ID	Status ^b
<i>Grant County</i>				
North of Silver City, NM	Cleveland Mill	NMD981155930	600952	Deleted from NPL

Sources: U.S. EPA, 2014a
 NMED, 2014f

^a Names appear as listed in the NMED database.

^b NPL = National Priorities List

Table 5-12. Leaking Underground Storage Tank Sites in the Southwest New Mexico Water Planning Region

Page 1 of 3

City ^a	Release/Facility Name ^{b,c}	Release ID	Facility ID	Physical Address ^c	Status ^d
Catron County					
Quemado	J and Y Auto Service	4038	51712	Hwy 60 West	Cleanup, Responsible Party
	NMDOT Quemado Patrol Yard	4658	29671	US 60 MM 32	Investigation, Responsible Party
Datil	Navajo Lodge & Gas	2606	29578	Interchange of Hwy 60	Cleanup, Responsible Party
	Ray's Garage	2281	30165	Interchange of Hwy 60	Cleanup, Responsible Party
	Datil General Store	4392	51739	US Hwy 60	Investigation, Responsible Party
Apache Creek	Apache Creek Store #2	4507	47957	Corner of NM 12 and 32	Investigation, Responsible Party
Reserve	Black Gold Service Sta	2676	26960	98 Main Street	Aggr Cleanup Completed, Resp Party
	Martinez 66	2739	29275	109 Main St	Cleanup, Responsible Party
	Reserve Conoco	3524	30198	SR 435	Investigation, Responsible Party
Grant County					
Cliff	NMSHTD-Cliff	1869	29647	8157 Hwy 180	Aggr Cleanup Completed, Resp Party
Mimbres	Mimbres Store 2	4675	29427	3090 Hwy 35	Pre-Investigation, Confirmed Release
	Mimbres Store 2	3046	29427	3090 Hwy 35	Pre-Investigation, Confirmed Release
Silver City	A&R Garage	205	26319	101 W College	Aggr Cleanup Completed, Resp Party
	The Price Company	2037	31084	803 S Bard	Aggr Cleanup Completed, Resp Party
	Victory Selfservice Minimart	3158	31495	602 Silver Heights Blvd	Aggr Cleanup Completed, Resp Party
	Fuel Center Plus 1	3596	28194	855 E Silver Heights Blvd	Cleanup, Responsible Party

Source: NMED, 2014e

^a Determined according to latitude/longitude information in NMED database. In some cases this information was inconsistent with the facility address, and where such an inconsistency was identified, county and city were instead determined based on the facility address.

^b Sites with No Further Action status (release considered mitigated) are not included. Information regarding such sites can be found on the NMED website (<http://www.nmenv.state.nm.us/ust/lists.html>)

^c Information appears as listed in the NMED database.

^d Pre-Investigation, Suspected Release: Release not confirmed by definition
 Pre-Investigation, Confirmed Release: Confirmed release as by definition
 Investigation: Ongoing assessment of environmental impact
 Cleanup: Physical removal of contamination ongoing
 Aggressive Cleanup Completed (Aggr Cleanup Completed): Effective removal of contamination complete
 Responsible Party (Resp Party): Owner/Operator responsible for mitigation of release
 CAF: Corrective action fund

Table 5-12. Leaking Underground Storage Tank Sites in the Southwest New Mexico Water Planning Region

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City ^a	Release/Facility Name ^{b,c}	Release ID	Facility ID	Physical Address ^c	Status ^d
Grant County (cont.)					
Silver City (cont.)	Housley Distributing Inc	4093	28609	785 S Mill Rd	Cleanup, Responsible Party
	Silvercrest Tex	1167	28772	1510 Silver Heights Blvd	Cleanup, Responsible Party
	Snappy Mart #19	2620	30653	1810 SouthwestAN St	Cleanup, Responsible Party
	BNSF Mill Street	4653	54742	784 South Mill Street	Pre-Investigation, Confirmed Release
Bayard	Al's Transmission	1812	26552	310 N Central	Aggr Cleanup Completed, Resp Party
	Buttermilks Shamrock Serv	3316	27181	314 Tom Foy Blvd	Aggr Cleanup Completed, Resp Party
	Hwy Texaco/Food Mart	2760	28538	801 Tom Foy Blvd	Aggr Cleanup Completed, Resp Party
	Bayard Chevron	4458	26867	309 Central Ave	Investigation, Responsible Party
	Porter Oil Bulk	938	26866	1400 N Central Ave	Pre-Investigation, Confirmed Release
	Bayard Bulk Plant	2443	26866	1400 N Central Ave	Pre-Investigation, Confirmed Release
Hurley	Gila Mill Works	2997	28333	120 N Hurley Rd	Cleanup, Responsible Party
Tyrone	Tyrone Chevron	4468	31265	US Hwy 90	Investigation, Responsible Party
Hachita	Hachita Cafe and Store	4454	6036	PO Box 95	Pre-Investigation, Suspected Release
Hidalgo County					
Lordsburg	Border Cowboy T-Stop	2430	27014	992 E Railroad	Cleanup, Responsible Party
	Loves Country Store 276	4496	29165	900 W Motel Dr	Cleanup, Responsible Party
	Save Gas 1, Lordsburg	4447	30498	1001 S Main St	Cleanup, Responsible Party

Source: NMED, 2014e

^a Determined according to latitude/longitude information in NMED database. In some cases this information was inconsistent with the facility address, and where such an inconsistency was identified, county and city were instead determined based on the facility address.

^b Sites with No Further Action status (release considered mitigated) are not included. Information regarding such sites can be found on the NMED website (<http://www.nmenv.state.nm.us/ust/lists.html>)

^c Information appears as listed in the NMED database.

^d Pre-Investigation, Suspected Release: Release not confirmed by definition
 Pre-Investigation, Confirmed Release: Confirmed release as by definition
 Investigation: Ongoing assessment of environmental impact
 Cleanup: Physical removal of contamination ongoing
 Aggressive Cleanup Completed (Aggr Cleanup Completed): Effective removal of contamination complete
 Responsible Party (Resp Party): Owner/Operator responsible for mitigation of release
 CAF: Corrective action fund

Table 5-12. Leaking Underground Storage Tank Sites in the Southwest New Mexico Water Planning Region

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City ^a	Release/Facility Name ^{b,c}	Release ID	Facility ID	Physical Address ^c	Status ^d
Hidalgo County (cont.)					
Lordsburg (cont.)	Westside Texaco	937	28307	400 W Motel Dr	Cleanup, Responsible Party
	Border Cowboy Restrt	2433	27013	984 E Railroad	Investigation, Responsible Party
	Lordsburg (City of) - Airport	4449	29139	1000 E Airport Rd	Investigation, Responsible Party
	Quick Shop/Calico Graphics	3407	30096	628 E Motel Dr	Investigation, Responsible Party
Animas	Lindas	4419	51653	61 E Highway 9	Investigation, Responsible Party
Deming	Beacon Truck Stop #658	1902	9762	14150 Highway 418 Southwest	Cleanup, Responsible Party
	Cano's Restaurant	4654	54744	1200 W Pine	Cleanup, Responsible Party
	Deming Bulk Plant	4559	30038	2701 E Pine	Cleanup, Responsible Party
	Gonzales Self Serve	2014	31494	422 W Pine	Cleanup, Responsible Party
	On Sale Tire Co	3042	27082	101 W Pine St	Cleanup, Responsible Party
	Save Gas - No3	4089	27658	1312 W Pine	Cleanup, Responsible Party
	Stuckeys Deming	2966	1843	15 Miles W of Deming On I	Cleanup, Responsible Party
	Triangle Truck Stop	3401	31200	1300 W Pine	Cleanup, Responsible Party
	Country Club Food Mart	4443	51556	2319 E Motel Dr	Investigation, Responsible Party
	Sav-O-Mat C	3521	30493	321 W Pine St	Investigation, Responsible Party
	Savoy Truck Stop	4073	9762	14150 Highway 418 Southwest	Investigation, Responsible Party
Snappy-Mart #258	2892	1805	306 E Pine	Investigation, Responsible Party	

Source: NMED, 2014e

^a Determined according to latitude/longitude information in NMED database. In some cases this information was inconsistent with the facility address, and where such an inconsistency was identified, county and city were instead determined based on the facility address.

^b Sites with No Further Action status (release considered mitigated) are not included. Information regarding such sites can be found on the NMED website (<http://www.nmenv.state.nm.us/ust/lists.html>)

^c Information appears as listed in the NMED database.

^d Pre-Investigation, Suspected Release: Release not confirmed by definition
 Pre-Investigation, Confirmed Release: Confirmed release as by definition
 Investigation: Ongoing assessment of environmental impact
 Cleanup: Physical removal of contamination ongoing
 Aggressive Cleanup Completed (Aggr Cleanup Completed): Effective removal of contamination complete
 Responsible Party (Resp Party): Owner/Operator responsible for mitigation of release
 CAF: Corrective action fund

Table 5-13. Landfills in the Southwest New Mexico Water Planning Region

County	Landfill Name ^a	Landfill Operating Status	Landfill Closure Date
Catron	Datil Landfill	Closed	1989,1996
	Glenwood	Closed	—
	Last Frontier Subdivision Land	Closed	1993
	Pie Town	Closed	—
	Quemado Landfill	Closed	1995
	Reserve	Closed	—
Grant	Chino Mines Co.	Closed	2005
	Cliff/Gila Landfill	Closed	—
	Gila	Closed	1994
	Hachita Landfill	Closed	1994
	Hurley Smelter	Closed	—
	Old Silver City Landfill	Closed	1995
	Santa Rita	Closed / Inactive ^b	—
	Silver City Landfill	Closed	—
	Southwest New Mexico Regional	Open	NA
	Tri City	Closed	1995
	Tyrone Branch	Open	NA
Hidalgo	Animas Landfill	Closed	1997
	Cotton City	Closed	1989
	Lordsburg Landfill	Closed	1997
	Rodeo	Closed	1989
	Virden North	Closed	1989
	Virden South	Closed	1989
Luna	Butterfield Trail Regional Landfill	Open	NA
	Columbus Landfill	Closed	1998
	Deming Landfill	Closed	2010

Sources: DBS&A, 2005; NMED, 2007, 2013a, 2014c

NA = Not applicable

^a Names appear as listed in the NMED database.

— = Information not available

^b No indication as recently open or active, but listed as active in accepted regional water plan.

Table 5-14a. Projected Groundwater Supply in Animas, Lordsburg, and Mimbres Basins Modeled Areas in 2060, Based on Modeled Drawdown

Row	Calculation Step	Underground Water Basin				Explanation/Source
		Animas	Lordsburg	Mimbres		
				Grant County	Luna County	
1	Estimated groundwater diversions in 2010 (ac-ft/yr)	15,291	16,477	10,928	40,164	Longworth et al., 2013
2	Modeled pumping in future decades (ac-ft/yr)	28,890		37,850		Keyes, 2015c
3	Ratio of administrative supply to modeled pumping	1.10		1.35		Total of Row 1 basins within modeled area divided by Row 2
4	Median water column (feet)	165	216	84	200	Difference between water level at the top of the well and total depth of the well, based on wells in WATERS database with post-1997 water level: <ul style="list-style-type: none"> • 36 in Animas UWB • 120 in Mimbres UWB within Grant County • 44 in Mimbres UWB within Luna County • 31 in Nutt Hockett UWB within Luna County • 24 in Playas Valley UWB
5	Available water column (feet)	116	151	58	140	NMISC Handbook (2013) guideline (70% of median water column)
6	Predicted drawdown from model into 2060 (feet)	55	20	30		Greatest decline in the modeled area (Keyes, 2015b)
7	Adjusted model-predicted drawdown in 2060 (feet)	60	22	40		Row 3 times Row 6
8	Percentage of wells impacted (percentage reduction in supply)	26%	7%	35%	14%	Row 7 divided by Row 5 times 50%
9	Revised supply by 2060 due to continued pumping (ac-ft/yr)	11,288	15,279	7,142	34,355	Row 1 reduced by Row 8

ac-ft/yr = Acre-feet per year

UWB = Underground Water Basin

**Table 5-14b. Projected Groundwater Supply in Southwest New Mexico Water Planning Region in 2060,
Based on Observed Rate of Decline**
Page 1 of 2

Row	Calculation Step	Underground Water Basin						Explanation/Source
		Animas	Lordsburg	Mimbres		Nutt-Hockett	Playas Valley	
				Grant County	Luna County			
1	Estimated ground-water diversions in 2010 (ac-ft/yr)	15,291	16,477	10,928	40,164	16,084	20,595	Longworth et al., 2013
2	Median water column (feet)	165	216	84	200	157	16	Difference between water level at the top of the well and total depth of the well, based on wells in WATERS database with post-1997 water level: <ul style="list-style-type: none"> • 36 in Animas UWB • 120 in Mimbres UWB within Grant County • 44 in Mimbres UWB within Luna County • 31 in Nutt Hockett UWB within Luna County • 24 in Playas Valley UWB
3	Available water column	116	151	58	140	110	11	NMISC Handbook (2013) guideline (70% of median water column)
4	Rate of water level decline (ft/yr)	0.61	0.44	0.15	1.18	2.49	0.54	Using the water level data for USGS monitor wells within the non-stream-connected groundwater basin with decreasing water levels (Figure 5-11), the change in water level from the 1980s to the most recent measurement date was calculated and divided by the elapsed time. The results were averaged to determine a single rate.

ac-ft/yr = Acre-feet per year
UWB = Underground Water Basin

**Table 5-14b. Projected Groundwater Supply in Southwest New Mexico Water Planning Region in 2060,
Based on Observed Rate of Decline**

Page 2 of 2

Row	Calculation Step	Underground Water Basin						Explanation/Source
		Animas	Lordsburg	Mimbres		Nutt-Hockett	Playas Valley	
				Grant County	Luna County			
5	Estimated decline in 50 years (feet)	31	22	7	59	124	27	The average rate of water level decline was multiplied by 50 years to predict the average drawdown by 2060.
6	Percentage of wells impacted	13%	7%	6.2%	21.2%	56.6%	120.5%	Row 5 divided by Row 3 and multiplied by 50%
7	Groundwater supply from mined sub-basins in 2060 (ac-ft/yr)	13,262	15,267	10,246	31,669	6,988	0	Row 1 reduced by Row 6

ac-ft/yr = Acre-feet per year

UWB = Underground Water Basin

Table 5-15. Projected Drought Groundwater Supply in the Southwest New Mexico Water Planning Region in 2060

Page 1 of 2

Row	Calculation Step	Underground Water Basin						Explanation/Source
		Animas	Lordsburg	Mimbres		Nutt-Hockett	Playas Valley	
				Grant County	Luna County			
1	Estimated ground-water diversions in 2010 (ac-ft/yr)	15,291	16,477	10,928	40,164	16,084	20,595	Longworth et al., 2013
2	Modeled pumping (ac-ft/yr)	28,890		37,850		NA	NA	Keyes, 2015c
3	Ratio of administrative supply to modeled pumping	1.10		1.35		NA	NA	Total Row 1 for modeled area/Row 2
4	Available water column (feet)	116	151	58	140	110	11	Row 3 of Table 5-15
5	Predicted additional drawdown from 20 year drought (feet)	10	1	10		NA	NA	Keyes, 2015a
6	Adjusted predicted drawdown in 2060 due to drought (feet)	11	1.1	13		NA	NA	Row 5 * Row 3
7	Total drawdown due to pumping and drought	71	23.1	54		NA	NA	Row 7 of Table 5-14a plus Row 6

ac-ft/yr = Acre-feet per year
 UWB = Underground Water Basin

Table 5-15. Projected Drought Groundwater Supply in the Southwest New Mexico Water Planning Region in 2060

Page 2 of 2

Row	Calculation Step	Underground Water Basin						Explanation/Source
		Animas	Lordsburg	Mimbres		Nutt-Hockett	Playas Valley	
				Grant County	Luna County			
8	Reduction in supply due to drought and pumping	31%	8%	46%	19%	68%	132%	Row 7/Row 4 * 50% The increases are based on modeled drought; where no model was available, the highest increase (12%) was added to the predicted decline based on water-level decline rate.
9	Revised ground-water supply by 2060 with 20-year drought (ac-ft/yr)	10,560	15,219	5,880	32,419	5,131	0	Row 1 * (1 – Row 8)

ac-ft/yr = Acre-feet per year

UWB = Underground Water Basin

Table 6-1. Total Diversions in the Southwest New Mexico Water Planning Region in 2010

Water Use Category	Diversions (acre-feet)														
	Catron County			Grant County			Hidalgo County			Luna County			Planning Region		
	Surface Water	Ground-water	Total	Surface Water	Ground-water	Total	Surface Water	Ground-water	Total	Surface Water	Ground-water	Total	Surface Water	Ground-water	Total
Commercial (self-supplied)	0	235	235	0	163	163	0	204	204	0	314	314	0	916	916
Domestic (self-supplied)	0	161	161	0	185	185	0	131	131	0	868	868	0	1,346	1,346
Industrial (self-supplied)	0	0	0	0	0	0	0	783	783	1	12	13	1	795	796
Irrigated agriculture	21,056	327	21,384	31,709	4,461	36,170	6,754	58,615	65,369	22,300 ^a	49,132 ^a	71,432 ^a	81,820	112,535	194,355
Livestock (self-supplied)	214	241	455	149	175	324	54	227	281	47	523	570	464	1,166	1,630
Mining (self-supplied)	0	15	15	3,662	7,882	11,544	1,689	0	1,689	12	154	166	5,363	8,051	13,414
Power (self-supplied)	0	0	0	0	4	4	0	47	47	0	1,219	1,219	0	1,270	1,270
Public water supply	46	160	206	0	3,919	3,919	0	629	629	0	4,055	4,055	46	8,763	8,809
Reservoir evaporation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	21,316	1,139	22,456	35,520	16,789	52,309	8,497	60,637	69,134	22,360	56,276	78,636	87,693	134,842	222,535

Source: Longworth et al., 2013

^a Data amended by NMOSE Water Use and Conservation Bureau in November 2015 (NMOSE, 2015).

Table 6-2. Comparison of Projected and Actual 2010 Population

County	2005 Regional Water Plan Projected Population ^a		Actual Population/ 2010 U.S. Census ^b
	High	Low	
Catron	3,999	3,567	3,725
Grant	29,563	29,563	29,514
Hidalgo	6,723	5,800	4,894
Luna	32,181	28,493	25,095
Total Region	72,466	67,423	63,228

^a DBS&A, 2005

^b U.S. Census Bureau, 2014a

**Table 6–3. Southwest New Mexico Population Projections
July 1, 2010 to July 1, 2060**

a. Annual Growth Rate

County	Projection	Growth Rate (%)				
		2010-2020	2020-2030	2030-2040	2040-2050	2050-2060
Catron	High	1.22	0.96	0.86	0.84	0.82
	Low	0.49	0.23	0.03	0.00	0.00
Grant	High	1.22	0.96	0.86	0.84	0.82
	Low	-0.02	-0.05	-0.07	-0.08	-0.09
Hidalgo	High	1.21	0.96	0.81	0.83	0.83
	Low	-0.16	-0.31	-0.59	-0.59	-0.59
Luna	High	1.00	1.50	1.50	1.50	1.50
	Low	1.11	1.16	1.24	1.24	1.24

b. Projected Population

County	Projection	Population					
		2010	2020	2030	2040	2050	2060
Catron	High	3,725	4,205	4,628	5,041	5,482	5,948
	Low	3,725	3,909	4,000	4,012	4,012	4,012
Grant	High	29,514	31,772	34,958	38,083	41,406	44,930
	Low	29,514	29,457	29,310	29,102	28,869	28,635
Hidalgo	High	4,894	5,538	6,093	6,601	7,174	7,792
	Low	4,894	4,818	4,671	4,403	4,150	3,911
Luna	High	25,095	27,717	32,168	37,335	43,331	50,289
	Low	25,095	28,024	31,465	35,595	37,784	40,108

Source: Poster Enterprises, 2014

Table 6-4. 2010 Water Withdrawals for Drinking Water Supply Systems and Rural Self-Supplied Homes

Page 1 of 4

OSE Declared Groundwater Basin(s) ^a	Water Supplier ^b	Population	Per Capita Use (gpcd)	Withdrawals (acre-feet)	
				Surface Water	Groundwater
Catron County					
Gallup	Coyote Creek Mutual Domestic WUA	213	0	0	0
	Pie Town MDWCA	100	110	0	12
	Quemado Municipal Water & SWA	300	53	0	18
Gila-San Francisco	Aragon Mutual Domestic	45	73	0	4
	Rancho Grande Water Assn. (Lower Colorado)	172	291	46	10
	Reserve Water Works	340	212	0	81
Rio Grande (Middle)	Homestead Landowners Association	100	51	0	6
NA	Mojave Academy	40	36	0	2
	Ponderosa Estates	357	70	0	28
<i>Catron County public water supply totals</i>		1,667		46	160
<i>County-wide public water supply per capita use ^c</i>			110		
Gallup Gila-San Francisco	Rural self-supplied homes (Lower Colorado)	1,826	70	0	143
Rio Grande (Middle)	Rural self-supplied homes (Rio Grande)	232	70	0	18
<i>Catron County domestic self-supplied totals</i>		2,058		0	161
<i>County-wide domestic self-supplied per capita use ^c</i>			70		
Grant County					
Gila-San Francisco	Heights Water Users Assoc.	40	48	0	2
	Lake Roberts Water Users/Subdivision	87	28	0	3
	Pinos Altos MDWCA	350	80	0	32

Source: Longworth et al., 2013, unless otherwise noted.

^a Determined based on NMED Drinking Water Bureau water supply source locations (NMOSE water use database doesn't distinguish groundwater basin).

^b For systems supplied by surface water withdrawals, the river basin is provided in parentheses. Rural self-supplied homes are located in the river basin specified in parentheses.

^c County-wide per capita use, calculated as the total population divided by total withdrawals.

^d Groundwater basin assumed based on geographic location of water supplier.

gpcd = Gallons per capita per day
NA = Information not available

Table 6-4. 2010 Water Withdrawals for Drinking Water Supply Systems and Rural Self-Supplied Homes

Page 2 of 4

OSE Declared Groundwater Basin(s) ^a	Water Supplier ^b	Population	Per Capita Use (gpcd)	Withdrawals (acre-feet)	
				Surface Water	Groundwater
Grant County (cont.)					
Gila-San Francisco	Trout Mountain Assoc, Inc	50	38	0	2
Hatchita	Hachita Water System ^d	90	89	0	9
Mimbres	Arenas Valley MDWCA	1,756	53	0	104
	Bayard Municipal Water System	2,591	86	0	250
	Casas Adobes Water Company	400	99	0	44
	Hanover MDWCA	292	74	0	24
	Hurley Water Supply System	1,250	90	0	127
	North Hurley MDWCA	365	74	0	30
	Rio De Arenas, LLC	277	80	0	25
	Santa Clara Water System	2,000	230	0	515
	Tyrone MDWCA	100	62	0	7
	Tyrone Water System	795	80	0	71
Whiskey Creek Mobile Ranch	138	45	0	7	
Mimbres Gila-San Francisco	Silver City Water System	16,870	141	0	2,668
<i>Grant County public water supply totals</i>		27,451		0	3,919
<i>County-wide public water supply per capita use^c</i>			128		
Gila-San Francisco Lordsburg	Rural self-supplied homes (Lower Colorado)	507	80	0	45
Hatchita Mimbres Las Animas Creek	Rural self-supplied homes (Rio Grande)	1,556	80	0	139

Source: Longworth et al., 2013, unless otherwise noted.

^a Determined based on NMED Drinking Water Bureau water supply source locations (NMOSE water use database doesn't distinguish groundwater basin).

^b For systems supplied by surface water withdrawals, the river basin is provided in parentheses. Rural self-supplied homes are located in the river basin specified in parentheses.

^c County-wide per capita use, calculated as the total population divided by total withdrawals.

^d Groundwater basin assumed based on geographic location of water supplier.

gpcd = Gallons per capita per day
NA = Information not available

Table 6-4. 2010 Water Withdrawals for Drinking Water Supply Systems and Rural Self-Supplied Homes

Page 3 of 4

OSE Declared Groundwater Basin(s) ^a	Water Supplier ^b	Population	Per Capita Use (gpcd)	Withdrawals (acre-feet)	
				Surface Water	Groundwater
Grant County (cont.)					
<i>Grant County domestic self-supplied totals</i>		2,063		0	185
<i>County-wide domestic self-supplied per capita use^c</i>			80		
Hidalgo County					
Lordsburg	Glen Acres Community Water System	237	173	0	46
	Lordsburg Water Supply System	2,900	168	0	546
Playas	New Mexico Tech, Playas Facility	65	80	0	6
San Simon	Rodeo WUA	77	133	0	12
Virден Valley	Virден Water System	152	114	0	19
<i>Hidalgo County public water supply totals</i>		3,431		0	629
<i>County-wide public water supply per capita use^c</i>			164		
Animas Cloverdale Gila-San Francisco Lordsburg San Simon Virден Valley Yaqui	Rural self-supplied homes (Lower Colorado)	746	80	0	67
Hatchita Playas	Rural self-supplied homes (Rio Grande)	717	80	0	64
<i>Hidalgo County domestic self-supplied totals</i>		1,463		0	131
<i>County-wide domestic self-supplied per capita use^c</i>			80		
Luna County					
Mimbres	Columbus Water System	2,100	97	0	227

Source: Longworth et al., 2013, unless otherwise noted.

^a Determined based on NMED Drinking Water Bureau water supply source locations (NMOSE water use database doesn't distinguish groundwater basin).

^b For systems supplied by surface water withdrawals, the river basin is provided in parentheses. Rural self-supplied homes are located in the river basin specified in parentheses.

^c County-wide per capita use, calculated as the total population divided by total withdrawals.

^d Groundwater basin assumed based on geographic location of water supplier.

gpcd = Gallons per capita per day
NA = Information not available

Table 6-4. 2010 Water Withdrawals for Drinking Water Supply Systems and Rural Self-Supplied Homes

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OSE Declared Groundwater Basin(s) ^a	Water Supplier ^b	Population	Per Capita Use (gpcd)	Withdrawals (acre-feet)	
				Surface Water	Groundwater
<i>Luna County (cont.)</i>					
Mimbres (cont.)	Deming Municipal Water System	15,000	226	0	3,794
	Pecan Park MDWCA	80	231	0	21
	Peoples Water Coop	80	100	0	9
NA	Gunter's Mobile Home Rentals	54	19	0	1
	Hidden Valley Water System	30	82	0	3
<i>Luna County public water supply totals</i>		17,344		0	4,055
<i>County-wide public water supply per capita use ^c</i>			209		
Hatchita Lordsburg Mimbres Nutt-Hockett	Rural self-supplied homes (Rio Grande)	7,751	100	0	868
<i>Luna County domestic self-supplied totals</i>		7,751		0	868
<i>County-wide domestic self-supplied per capita use ^c</i>			100		

Source: Longworth et al., 2013, unless otherwise noted.

^a Determined based on NMED Drinking Water Bureau water supply source locations (NMOSE water use database doesn't distinguish groundwater basin).

^b For systems supplied by surface water withdrawals, the river basin is provided in parentheses. Rural self-supplied homes are located in the river basin specified in parentheses.

^c County-wide per capita use, calculated as the total population divided by total withdrawals.

^d Groundwater basin assumed based on geographic location of water supplier.

gpcd = Gallons per capita per day
NA = Information not available

**Table 6-5. Projected Water Demand, 2020 through 2060
Southwest New Mexico Water Planning Region**

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Use Sector	Projection	Water Demand (acre-feet)					
		2010 ^a	2020	2030	2040	2050	2060
Catron County							
Public water supply	High	206	226	244	262	281	301
	Low	206	214	217	218	218	218
Domestic (self-supplied)	High	161	182	200	218	237	258
	Low	161	169	173	174	174	174
Irrigated agriculture	Low/High	21,384	21,384	21,384	21,384	21,384	21,384
Livestock (self-supplied)	High	455	273	318	455	455	455
	Low	455	182	228	273	318	364
Commercial (self-supplied)	High	235	265	292	318	346	375
	Low	235	246	252	253	253	253
Industrial (self-supplied)	Low/High	0	0	0	0	0	0
Mining (self-supplied)	Low/High	15	15	15	15	15	15
Power (self-supplied)	Low/High	0	0	0	0	0	0
Reservoir evaporation	Low/High	0	0	0	0	0	0
Grant County							
Public water supply	High	3,919	4,219	4,642	5,057	5,498	5,966
	Low ^b	3,919	3,919	3,919	3,919	3,919	3,919
Domestic (self-supplied)	High	185	199	219	239	259	281
	Low ^b	185	185	185	185	185	185
Irrigated agriculture	High	36,170	36,170	36,170	36,170	36,170	36,170
	Low	36,170	34,868	35,085	35,302	35,519	35,736
Livestock (self-supplied)	High	324	194	227	324	324	324
	Low	324	130	162	194	227	259
Commercial (self-supplied)	High	163	190	208	225	244	263
	Low	163	178	177	176	174	173
Industrial (self-supplied)	Low/High	0	0	0	0	0	0
Mining (self-supplied)	High	11,544	20,700	20,700	20,700	20,700	20,700
	Low	11,544	20,700	20,700	10,350	10,350	10,350
Power (self-supplied)	Low/High	4	4	4	4	4	4
Reservoir evaporation	Low/High	0	0	0	0	0	0

^a Actual withdrawals (Longworth et al., 2013)

^b Population growth rates are used to project future water use in this sector. Where growth rates are negative, projected use is set at 2010 withdrawals. The withdrawals in 2010 represent water that has been put to beneficial use and is a valid water right. For planning purposes it is assumed that valid water rights are maintained and will be used in the future.

Table 6-5 Projected Water Demand, 2020 through 2060
Southwest New Mexico Water Planning Region
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Use Sector	Projection	Water Demand (acre-feet)					
		2010 ^a	2020	2030	2040	2050	2060
Hidalgo County							
Public water supply	High	629	708	768	815	862	925
	Low ^b	629	629	629	629	629	629
Domestic (self-supplied)	High	131	148	163	177	192	209
	Low ^b	131	131	131	131	131	131
Irrigated agriculture	High	65,369	65,639	65,639	65,639	65,639	65,639
	Low	65,369	47,916	50,870	53,824	56,778	59,731
Livestock (self-supplied)	High	281	169	197	281	281	281
	Low	281	112	140	169	197	225
Commercial (self-supplied)	High	204	1,673	1,696	1,717	1,741	1,767
	Low	204	1,643	1,637	1,626	1,615	1,605
Industrial (self-supplied)	High	783	834	911	984	1,034	1,089
	Low	783	811	834	859	884	911
Mining (self-supplied)	Low/High	1,689	50	50	50	50	50
Power (self-supplied)	High	47	60	65	70	75	80
	Low	47	50	50	50	50	50
Reservoir evaporation	Low/High	0	0	0	0	0	0
Luna County							
Public water supply	High	4,055	4,449	5,037	5,615	6,171	6,979
	Low	4,055	4,495	4,939	5,393	5,528	5,797
Domestic (self-supplied)	High	868	959	1,113	1,292	1,499	1,740
	Low	868	970	1,089	1,231	1,307	1,388
Irrigated agriculture	High	71,432 ^c	71,432	71,432	71,432	71,432	71,432
	Low	71,432 ^c	58,003	59,277	61,708	64,139	66,570
Livestock (self-supplied)	High	570	399	456	570	570	570
	Low	570	285	342	399	456	513
Commercial (self-supplied)	High	314	347	403	467	542	629
	Low	314	351	394	445	473	502
Industrial (self-supplied)	Low/High	13	15	17	20	25	30
Mining (self-supplied)	Low/High	166	166	166	166	166	166

^a Actual withdrawals (Longworth et al., 2013)

^b Population growth rates are used to project future water demand in this sector. Where growth rates are negative, projected demand is set at 2010 withdrawals. The withdrawals in 2010 represent water that has been put to beneficial use and is a valid water right. For planning purposes it is assumed that valid water rights are maintained and will be used in the future.

^c Data amended by NMOSE Water Use and Conservation Bureau in November 2015 (NMOSE, 2015).

Table 6-5 Projected Water Demand, 2020 through 2060
Southwest New Mexico Water Planning Region
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Use Sector	Projection	Water Demand (acre-feet)					
		2010 ^a	2020	2030	2040	2050	2060
<i>Luna County (cont.)</i>							
Power (self-supplied)	High	1,219	1,450	1,450	1,450	1,450	1,450
	Low	1,219	1,300	1,300	1,300	1,300	1,300
Reservoir evaporation	Low/High	0	0	0	0	0	0
<i>Total region</i>							
Public water supply	High	8,809	9,602	10,691	11,749	12,813	14,171
	Low	8,809	9,257	9,705	10,159	10,294	10,564
Domestic (self-supplied)	High	1,346	1,488	1,696	1,925	2,188	2,488
	Low	1,346	1,455	1,578	1,721	1,797	1,877
Irrigated agriculture	High	194,355	194,625	194,625	194,625	194,625	194,625
	Low	194,355	162,171	166,616	172,218	177,820	183,421
Livestock (self-supplied)	High	1,630	1,035	1,198	1,630	1,630	1,630
	Low	1,630	709	872	1,035	1,198	1,361
Commercial (self-supplied)	High	916	2,475	2,598	2,727	2,872	3,034
	Low	916	2,418	2,459	2,500	2,515	2,533
Industrial (self-supplied)	High	796	849	928	1,004	1,059	1,119
	Low	796	826	851	879	909	941
Mining (self-supplied)	High	13,414	20,931	20,931	20,931	20,931	20,931
	Low	13,414	20,931	20,931	10,581	10,581	10,581
Power (self-supplied)	High	1,270	1,514	1,519	1,524	1,529	1,534
	Low	1,270	1,354	1,354	1,354	1,354	1,354
Reservoir evaporation	Low/High	0	0	0	0	0	0
Total regional demand	High	222,535	232,519	234,185	236,115	237,647	239,531
	Low	222,535	199,119	204,365	200,446	206,467	212,631

^a Actual withdrawals (Longworth et al., 2013)

^b Population growth rates are used to project future water demand in this sector. Where growth rates are negative, projected demand is set at 2010 withdrawals. The withdrawals in 2010 represent water that has been put to beneficial use and is a valid water right. For planning purposes it is assumed that valid water rights are maintained and will be used in the future.

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Table 7-1. Water Use and Estimated Availability in the Southwest New Mexico Water Planning Region

Source Type	Basin Area	2010 Estimated Water Use (ac-ft/yr)	2060 Estimated Water Availability (ac-ft/yr)	
			No Drought ^a	One 20-Year Drought
Groundwater (closed basins)	Animas	15,291	11,288	10,560
	Lordsburg	16,477	15,279	15,219
	Mimbres (Grant County)	10,928	7,142	5,880
	Mimbres (Luna County)	40,164	34,355	32,419
	Nutt-Hockett (Luna County)	16,084	6,988	5,131
	Playas Valley	20,595	0	0
Surface water	Six closed basins	29,617	29,617	2,962
Groundwater	All diversions outside of six closed basins	15,303	15,303	15,303
Surface water		58,076	58,076	5,808
Total		222,535	178,047	93,281
Water use as a percentage of 2010 use			80%	42%

^a Based on modeled declines or, where no model was available, observed water level declines, as detailed in Tables 5-14a, 5-14b, and 5-15.

ac-ft/yr = Acre-feet per year